

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,647,255 B2
APPLICATION NO. : 10/763803
DATED : January 12, 2010
INVENTOR(S) : Jihua Wang

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

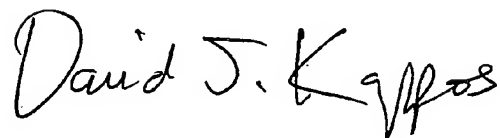
The Title Page, showing an illustrative Figure, should be deleted and substitute therefor the attached title page.

IN THE DRAWINGS:

Please replace the informal drawings with the attached formal drawings.

Signed and Sealed this

Eighth Day of June, 2010

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive, flowing style.

David J. Kappos
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Wang et al.

(10) **Patent No.:** **US 7,647,255 B2**
(45) **Date of Patent:** **Jan. 12, 2010**

(54) **ROTABLE INVENTORY CALCULATION METHOD**

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(73) Assignee: **United Technologies Corporation**, Hartford, CT (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1272 days.

(21) Appl. No.: **10/763,803**

(22) Filed: **Jan. 23, 2004**

(65) **Prior Publication Data**
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(51) **Int. Cl.**
G06Q 10/00 (2006.01)

(52) **U.S. Cl.** 705/28; 705/8

(58) **Field of Classification Search** 705/28
See application file for complete search history.

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* cited by examiner

Primary Examiner—Matthew S. Gart

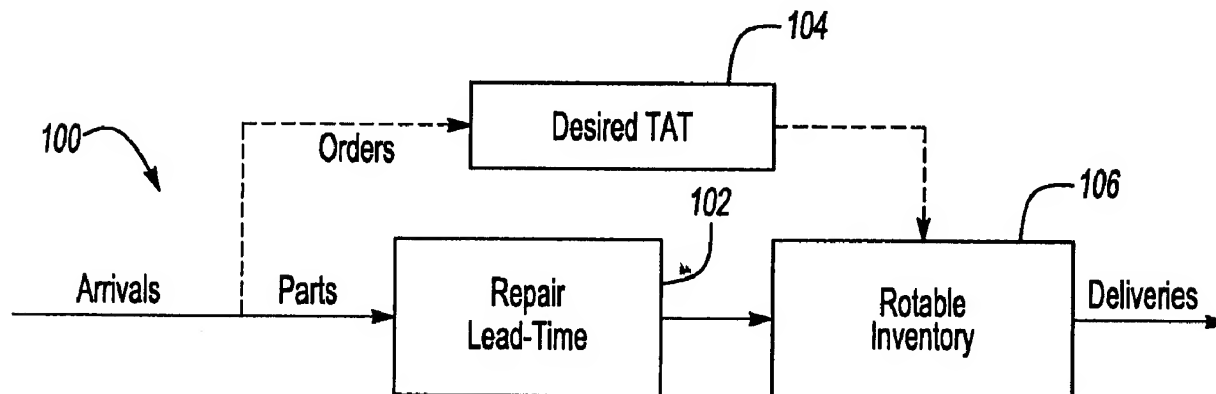
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(57) **ABSTRACT**

A method for conducting a repairable inventory analysis calculates the minimum number of repairable parts to be held in inventory while still being able to satisfy the demand for spare parts even in view of uncertain repair lead times. The method uses a set of equations that relates a customer service level to arbitrary probability distribution functions of a repair lead-time and a part arrival process. The distributions are then searched to locate the optimal inventory level in the distribution.

16 Claims, 3 Drawing Sheets



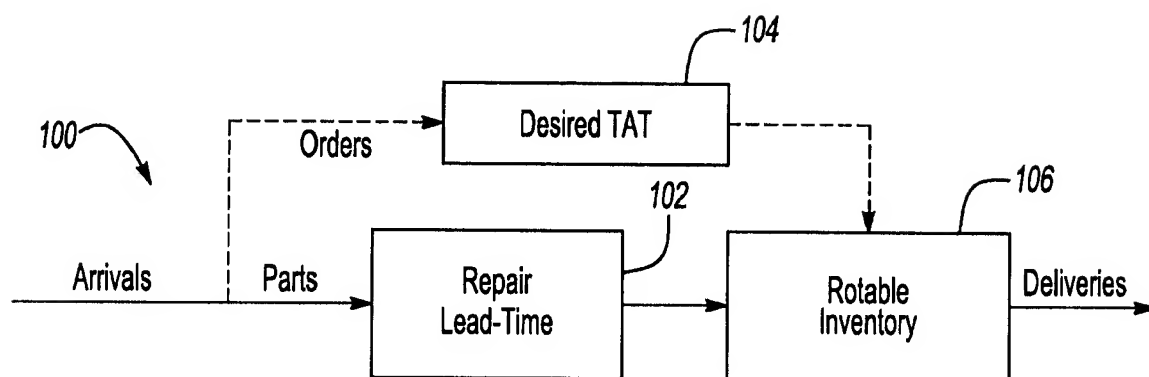


Fig-1

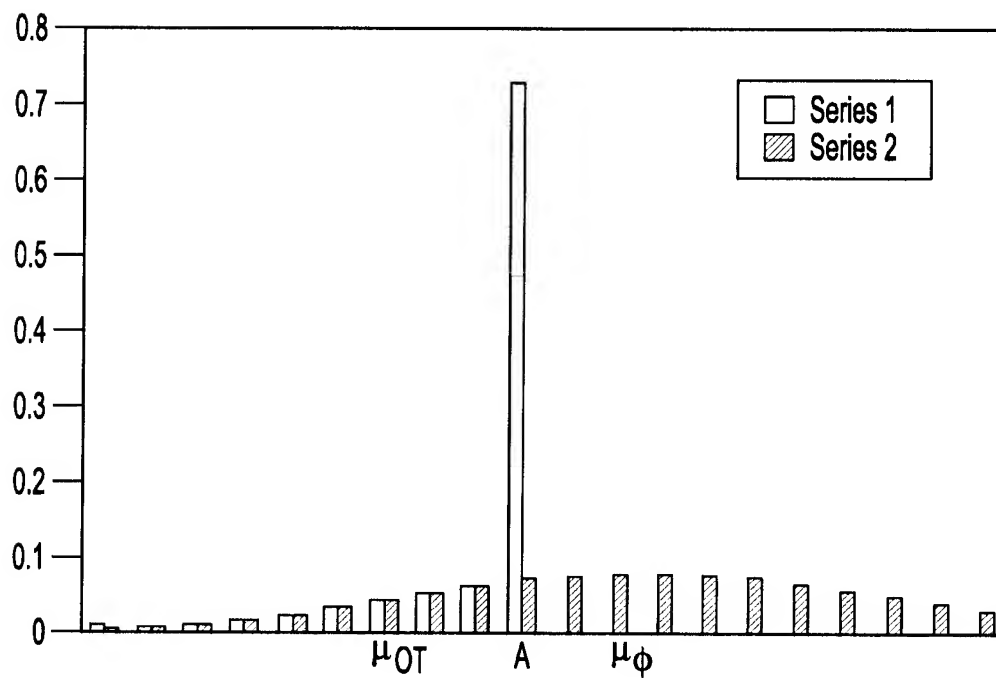


Fig-2

